

C. Coffey 1 - 7 - 58 - 16 - 1

Claims:

1. A method of establishing a connection between CPE (Customer Premises Equipment) and a serving switch comprising the steps of:
 - connecting said CPE to a Packet Network;
 - connecting a path between said CPE and said Packet Network to a Home Switch or one or more Guest Switches connected to said Packet Network;
 - wherein said one of said Home Switch or Guest Switches is selected as a serving switch, on the basis of a packet header address based on information from said CPE.
2. The method of Claim 1, wherein the step of providing said packet address comprises the step of storing said packet address in said CPE.
3. The method of Claim 1, wherein said CPE can be served from one of a plurality of switches connected to said Packet Network, and wherein the step of connecting said CPE to a selected one of said switches comprises the step of:
 - providing information from said CPE for selecting a packet address of said selected one of said switches.

C. Coffey 1 - 7 - 58 - 16 - 1

4. The method of Claim 1, wherein the step of connecting a path between said CPE and said Packet Network, comprises the step of connecting a Gateway of said CPE to a port of said Packet Network, and connecting another port of said Packet Network to a Gateway connected to said Home Switch, or connected to one of said one or more Guest Switches.
5. The method of Claim 1, further comprising the step of:
 - calling said CPE by establishing a connection to a Guest Switch;
 - and
 - connecting a path between said Guest Switch and said CPE.
6. The method of Claim 5, wherein the step of connecting a path between said Guest Switch and said CPE comprises the step of connecting a path between said Guest Switch and said CPE through said Packet Network.
7. The method of Claim 1, further comprising the steps of:
 - disconnecting said CPE from said Packet Network;
 - reconnecting said CPE to said Packet Network at a different port;
 - and

C. Coffey 1 - 7 - 58 - 16 - 1

recording an identity of said different port for completing calls to and from said CPE at said different port.

8. The method of Claim 1, wherein said Packet Network is connected to a Service Administration Terminal; further comprising the step of:

transmitting signals via said Pack Network from said Service Administration Terminal to said CPE for changing an identity of a switch for serving outgoing calls.

9. In a telecommunication network comprising a Packet Network, a Home Switch and at least one Guest Switch, apparatus for establishing a connection between CPE (Customer Premises Equipment) and a serving switch comprising the steps of:

means for connecting said CPE to a Packet Network;

means for connecting a path between said CPE and said Packet Network to a Home Switch or one or more Guest Switches connected to said Packet Network; and

means for selecting as a serving switch, one of said Home Switch or Guest Switches on the basis of a packet header address based on information from said CPE.

C. Coffey 1 - 7 - 58 - 16 - 1

10. The apparatus of Claim 9, wherein the means for selecting comprises means for storing said packet address in said CPE.
11. The apparatus of Claim 9, wherein said CPE can be served from one of a plurality of switches connected to said Packet Network, and wherein the means for connecting said CPE to a selected one of said switches comprises:
means for providing information from said CPE for selecting a packet address of said selected one of said switches.
12. The apparatus of Claim 9, wherein the means for connecting a path between said CPE and said Packet Network, comprises means for connecting a Gateway of said CPE to a port of said Packet Network, and means for connecting another port of said Packet Network to a Gateway connected to said Home Switch, or connected to one of said one or more Guest Switches.
13. The apparatus of Claim 9, further comprising:
means for calling said CPE by establishing a connection to a Guest Switch; and
means for connecting a path between said Guest Switch and said CPE.

C. Coffey 1 - 7 - 58 - 16 - 1

14. The apparatus of Claim 13, wherein the means for connecting a path between said Guest Switch and said CPE comprises means for connecting a path between said Guest Switch and said CPE through said Packet Network.
15. The apparatus of Claim 9, further comprising:
 - means for detecting a disconnection of said CPE from said Packet Network;
 - means for detecting a re-connection of said CPE to said Packet Network at a different port; and
 - means for recording an identity of said different port for completing calls to and from said CPE at said different port.
16. The apparatus of Claim 9, wherein said Packet Network is connected to a Service Administration Terminal; further comprising means for:
 - transmitting signals via said Packet Network from said Service Administration Terminal to said CPE for changing an identity of a switch for serving outgoing calls.